



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION  
**NOTICE OF ACCEPTANCE (NOA)**

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599  
[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

**Elco Construction Products, Div. of Infastech**  
**1304 Kerr Drive**  
**Decorah, IA 52101**

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

**DESCRIPTION: #14 ConFlex Concrete and Masonry Screw Anchor**

**APPROVAL DOCUMENT:** Drawing No. **15-2492**, titled "Elco Conflex Concrete/Masonry Screw Anchors", sheet 1 of 1, dated 02/08/2016, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E. on 06/28/2016, bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING: None**

**LABELING:** Each box/container of the smallest quantity shall bear a label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1, evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**



*Signature*  
06/03/2016

NOA No: 16-0211.03  
Expiration Date: August 11, 2021  
Approval Date: August 11, 2016  
Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Drawing No. **15-2492**, titled "Elco Conflex Concrete/Masonry Screw Anchors", sheet 1 of 1, dated 02/08/2016, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E. on 06/28/2016

**B. TESTS**

	<u>Test Report No.</u>	<u>Standard</u>	<u>Date</u>	<u>Signature</u>
1.	HETI-15-A1100	ASTM E488-10/ACI 355.2-07	05/22/15	Rafael E. Droz-Seda, P.E.
2.	HETI-15-A1136	ASTM E488-10/ACI 355.2-07	05/29/15	Rafael E. Droz-Seda, P.E.
3.	HETI-15-A1144	ASTM E488-10/ACI 355.2-07	06/15/15	Rafael E. Droz-Seda, P.E.
4.	HETI-15-S104	ASTM G85-11 Annex A5	05/21/15	Rafael E. Droz-Seda, P.E.
5.	HETI-15-T302	ASTM F606-14	05/21/15	Rafael E. Droz-Seda, P.E.
6.	HETI-15-C107	ASTM C39-14a	05/21/15	Rafael E. Droz-Seda, P.E.
7.	HETI-15-C109	ASTM C39-14a	05/21/15	Rafael E. Droz-Seda, P.E.
8.	HETI-15-C116	ASTM C39-14a	05/29/15	Rafael E. Droz-Seda, P.E.

**C. CALCULATIONS**

1. Anchor allowable load calculations prepared by Engineering Express, dated 02/08/2016, signed and sealed by Frank L. Bennardo, P.E.

**D. MATERIAL CERTIFICATIONS**

1. None.

**E. QUALITY ASSURANCE**

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

**F. STATEMENTS**

1. Statement letter of code conformance to the 5<sup>th</sup> edition (2014) FBC issued by Engineering Express, dated 02/08/2016, signed and sealed by Frank L. Bennardo, P.E.
2. Statement letter of no financial interest issued by Engineering Express, dated 02/08/2016, signed and sealed by Frank L. Bennardo, P.E.

  
08/03/2016

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Carlos M. Utrera, P.E.  
Product Control Examiner  
NOA No 16-0211.03  
Expiration Date: August 11, 2021  
Approval Date: August 11, 2016

# ELCO CONFLEX®

## SCREW ANCHORS

### GENERAL NOTES:

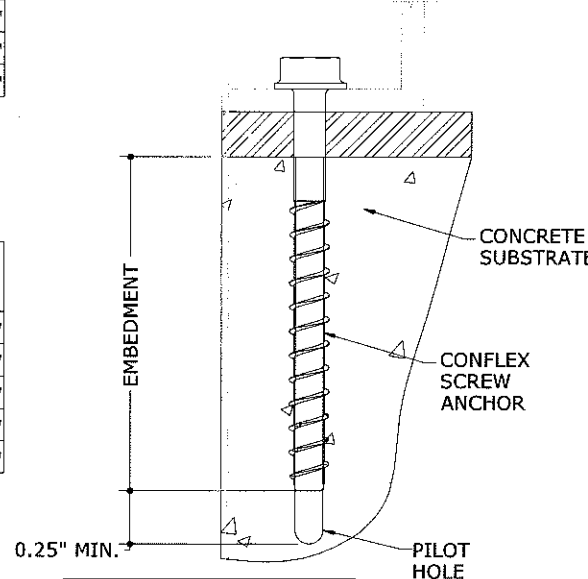
1. THIS PRODUCT HAS BEEN DESIGNED & TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE FIFTH EDITION (2014) FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE.
2. CONCRETE SHALL CONFORM TO ACI 301 SPECIFICATIONS, WITH STRENGTH PROPERTIES AS SPECIFIED HEREIN. HOLLOW AND GROUT-FILLED CONCRETE BLOCK SHALL CONFORM TO ASTM C-90.
3. ELCO CONFLEX IS A CORROSION RESISTANT MASONRY AND CONCRETE FASTENER FINISHED WITH STALGARD SUB COATING (HEX HEAD) OR STALGARD COATING (FLAT AND TRIMFIT FLAT HEAD).
4. HEAD MARKINGS: ELCO CONFLEX FASTENERS ARE IDENTIFIED WITH THE ELCO LOGO SURROUNDED BY A CIRCLE.
5. ALLOWABLE LOAD SHOWN=ULTIMATE LOAD DIVIDED BY 4.0 FOR CONCRETE ANCHORS AND ULTIMATE LOAD DIVIDED BY 5.0 FOR MASONRY ANCHORS. NO ALLOWABLE STRESS INCREASE HAS BEEN USED IN PREPARATION OF THIS DOCUMENT.
6. ANCHOR YIELD STRENGTH  $F_y=122$  KSI, ANCHOR ULTIMATE STRENGTH  $F_u=137$  KSI.
7. ANCHOR CAPACITY AT SPECIFIC EDGE DISTANCE, EMBEDMENT, AND SPACING ARE BASED ON TEST RESULTS. EDGE DISTANCES, EMBEDMENT, AND SPACING BELOW THESE TABULATED VALUES ARE NOT ACCEPTABLE. INTERPOLATION BETWEEN THE SPACINGS LISTED IN THESE DESIGN TABLES IS PERMISSIBLE.
8. ANCHOR INSTALLATION SHALL BE MADE IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS AND THIS MIAMI-DADE COUNTY, FLORIDA BNC NOTICE OF ACCEPTANCE.
- 8.1. DRILL HOLES AT LEAST  $\frac{1}{4}$ " DEEPER THAN THE CONFLEX EMBEDMENT.
- 8.2. SEE DRILL BIT TABLE TO DETERMINE APPROPRIATE DRILL BIT DIAMETER CORRESPONDING TO FASTENER DIAMETER.
- 8.3. CLEAN HOLES OF DEBRIS AND DUST BEFORE INSTALLATION OF ANCHOR.
- 8.4. ANCHORS SHALL NOT BE INSTALLED BEFORE THE CONCRETE HAS DEVELOPED ITS DESIGN STRENGTH.
- 8.5. ANCHORS SHALL NOT BE INSTALLED IN CRACKED CONCRETE AS DEFINED IN ACI 355.2
9. ANCHOR VALUES LISTED HEREIN ARE DETERMINED THROUGH TESTING REPORT DATA AND CHECKED FOR CONSISTENCY WITH EACH TEST PERFORMED.
10. REFERENCE THE FOLLOWING TEST REPORTS: HURRICANE ENGINEERING & TESTING, INC. #HETI-15-A1136, HETI-15-C107, HETI-15-C116, HETI-15-C109, HETI-15-S104, HETI-15-A1144, HETI-15-A1100, HETI-15-T302

### #14 CONFLEX® SCREW ANCHOR ALLOWABLE LOAD CAPACITIES:

	EMBEDMENT	EDGE DISTANCE	SPACING	TENSION (LB)	SHEAR (LB)
2500 PSI CONCRETE	1"	1-1/2"	6"	192	216
		3"		197	398
	1-3/4"	1-1/2"	6"	511	276
		3"		561	454
3500 PSI CONCRETE	1"	3"	1-1/2"	301	415
			3"	429	487
	1-3/4"	3"	3"	541	544
			6"	572	572
6500 PSI CONCRETE	1"	3"	3"	541	541
			4"	340	541
	1-3/4"	3"	3"	645	645
			4"	752	645

	EMBEDMENT	EDGE DISTANCE	SPACING	TENSION (LB)	SHEAR (LB)
HOLLOW BLOCK	1"	1"	3"	110	110
			4"	174	174
		2"	1"	84	113
			2"	106	150
GROUT FILLED BLOCK	1-3/4"	1-1/2"	8"	242	192
		3"	3"	384	407
		4"	3"	252	276
	2-1/4"	1-1/2"	8"	496	192
		3"	6"	488	488
			8"	590	488

INDICATES TESTED VALUE NOT AVAILABLE FOR SPECIFIC CONDITION



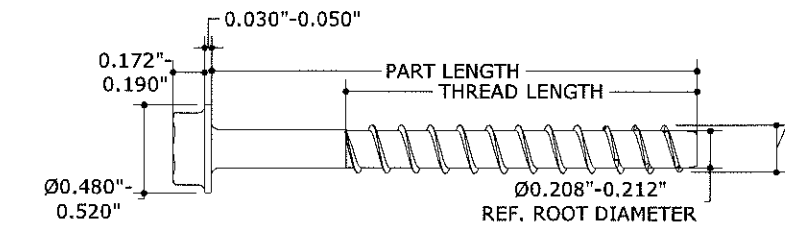
PILOT HOLE SHALL BE  $\frac{1}{4}$ " LONGER THAN EMBEDMENT.

### 5 TYPICAL SECTION

1' - 0" = 1' - 0" SECTION

Approved as complying with the  
Florida Building Code  
Date 08/11/2016  
NOA# 16-021.03  
Miami Dade Product Control

By *[Signature]*

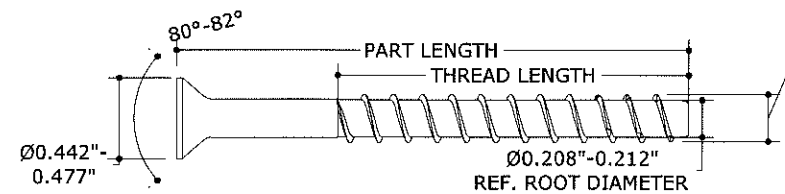


### 1 #14 HEX WASHER HEAD (HWH)

1 N.T.S. SIDE VIEW

Ø0.270"-0.280"  
FULL THREAD OD

NOMINAL LENGTH	PART LENGTH	APPROX THREAD LENGTH	DRILL BIT
1-3/4"	1.75"	1.50"	$\frac{7}{32}$ "x4 1/2"
2-1/4"	2.25"	2.00"	$\frac{7}{32}$ "x4 1/2"
2-3/4"	2.75"	2.00"	$\frac{7}{32}$ "x4 1/2"
3-1/4"	3.25"	2.00"	$\frac{7}{32}$ "x5 1/2"
3-3/4"	3.75"	2.00"	$\frac{7}{32}$ "x5 1/2"

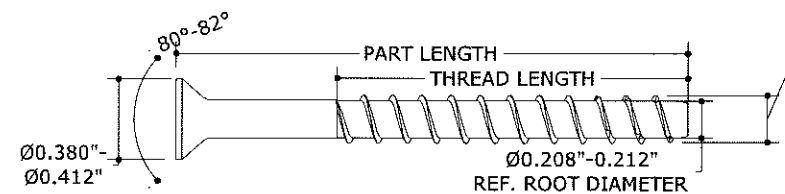


### 2 #14 PHILLIPS FLAT HEAD (PFH)

1 N.T.S. SIDE VIEW

Ø0.270"-0.280"  
FULL THREAD OD

NOMINAL LENGTH	PART LENGTH	APPROX THREAD LENGTH	DRILL BIT
1-3/4"	1.75"	1.50"	$\frac{7}{32}$ "x4 1/2"
2-1/4"	2.25"	2.00"	$\frac{7}{32}$ "x4 1/2"
2-3/4"	2.75"	2.00"	$\frac{7}{32}$ "x4 1/2"
3-1/4"	3.25"	2.00"	$\frac{7}{32}$ "x5 1/2"
3-3/4"	3.75"	2.00"	$\frac{7}{32}$ "x5 1/2"

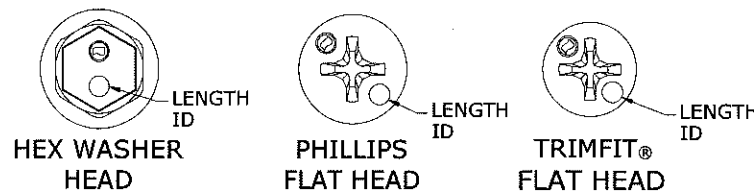


### 3 #14 TRIMFIT FLAT HEAD (TFH)

1 N.T.S. SIDE VIEW

Ø0.270"-0.280"  
FULL THREAD OD

NOMINAL LENGTH	PART LENGTH	APPROX THREAD LENGTH	DRILL BIT
1-3/4"	1.75"	1.50"	$\frac{7}{32}$ "x4 1/2"
2-1/4"	2.25"	2.00"	$\frac{7}{32}$ "x4 1/2"
2-3/4"	2.75"	2.00"	$\frac{7}{32}$ "x4 1/2"
3-1/4"	3.25"	2.00"	$\frac{7}{32}$ "x5 1/2"
3-3/4"	3.75"	2.00"	$\frac{7}{32}$ "x5 1/2"



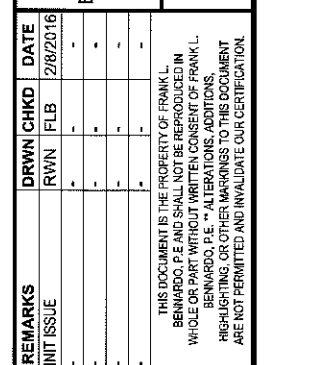
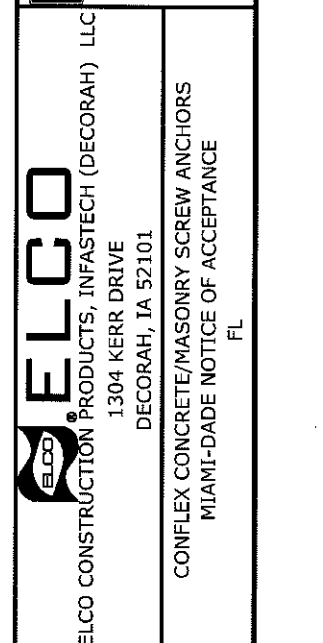
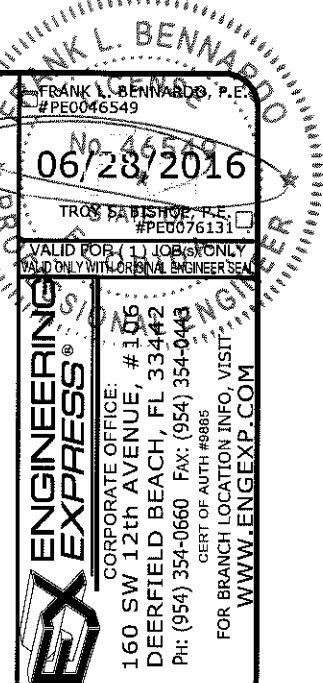
### 4 HEAD STYLES

1 N.T.S.

HEAD MARKING GUIDE:

"A" - LENGTH CODE  
ELCO LOGO

LENGTH CODES (PER ICC AC193 PG A11/PG18)		
ALPHA CODE	LENGTH OF ANCHOR	ELCO PART LENGTH
A	1 1/2" < 2"	1 3/4"
B	2" < 2 1/2"	2 1/4"
C	2 1/2" < 3"	2 3/4"
D	3" < 3 1/2"	3 1/4"
E	3 1/2" < 4"	3 3/4"
F	4" < 4 1/2"	4"
G	4 1/2" < 5"	-
H	5" < 5 1/2"	5"
I	5 1/2" < 6"	-
J	6" < 6 1/2"	6"



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15-2492

SCALE: SEE DETAILS 01

PAGE DESCRIPTION:

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